Electronic Version
Stylesheet Version v1.1.1

Connector and Coaxial Cable with Outer Conductor Cylindrical Section Axial Compression Connection

Abstract

A connector and coaxial cable interconnectable via axial compression upon a cylindrical section of a solid outer conductor of the cable. The cylindrical section may be formed in the cable by drawing a cable end into an interference fit between a sleeve and an outer conductor seat formed in the connector body. Alternatively, the cylindrical section may be formed in the outer conductor during cable manufacture and the cylindrical section retained between the outer conductor seat and a crimp ring radially deformed by an angled die face during axial compression. To increase flexibility of a straight walled cable, annular corrugations may be formed in the solid outer conductor with the cylindrical sections at each corrugation peak. The cylindrical section having a length of at least 3 millimeters or 4 times the corrugation depth.